Project No. W-____-____-

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF SAFE DRINKING WATER
TECHNICAL REVIEW FORM

CHEMICAL HANDLING AND FEEDING
(N.J.A.C. 7:10-11.12)

_____ _____ _____
Water Purveyor PWSID# Municipality

Provide the following information for each chemical feed:
(Attach additional copies of this page as necessary).

Type of Chemical Feed[1]				
Specific Chemical Used				
Number of Pumps				
Pump Make and Model Number				
Type of Pump[2]				
Pump Capacity				
Treatment Plant Capacity				
Chemical Dosage (pounds per day)				
Chemical Dosage (gallons per day)				
Final Concentration (parts per million)				
Method of Pump Control[3]				
Purpose of Treatment				

1 - Indicate the type of chemical feed (i.e. lime, prechlorination, caustic soda, etc.).
2 - Indicate the type of chemical feed pump (i.e. diaphragm, volumetric, gravimetric, solution, etc.).
3 - Indicate how the chemical feed pumps are controlled (i.e. flow pacing, residual pacing, etc.).

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General Information

	YES	NO	N/A
1. For those chemical feeds in treatment facilities which treat multiple sources or whose capacity exceeds 20% of the system capacity, are a minimum of 2 chemical feed pumps provided?		❒	❒
			❒
2. Is the variation in the accuracy of the feed pump less than 5% of the intended dosage?	❒	❒	❒
3. Are there means provided to accurately measure the amount of chemical fed?	❒	❒	❒
4. Is each chemical feed protected against back-siphonage via an antisiphon device (including an antisiphon valve to provide a vacuum break) on the chemical feed line and looping of the chemical feed line to a level higher than the highest elevation in the chemical storage tank?	❒	❒	❒
5. Is each chemical feed pump electrically connected to either a well pump or a booster pump?	❒	❒	❒
6. Are chemical feed lines equipped with clean-out connections, easily accessible for repairs and cleaning, protected against damage and freezing, corrosion resistant, as short as possible, and sloped to permit drainage?	❒	❒	❒

Chemical Storage Tanks

1. Is a minimum of 30 days storage provided for each chemical?	❒	❒	❒
2. Is the capacity of any day tank sufficient to provide at least 8 hours worth of chemical storage at normal operating feed rates?	❒	❒	❒
3. Are means provided to allow for adequate agitation to keep the strength of the chemical solution uniform throughout?	❒	❒	❒
4. Is water which is used for make-up or dilution of chemical feeds introduced through an air gap or other approved method to prevent back siphonage?	❒	❒	❒
5. Do any direct connections between a chemical storage tank drain and a sanitary sewer line exist?	❒	❒	❒
6. Are all waste liquids or sludge from chemical solution tanks disposed of in accordance with applicable State and Federal laws and regulations?	❒	❒	❒

	YES	NO	N/A

Dry Feeders

1. Indicate the type of feeder: ❒ Volumetric ❒ Gravimetric

2. Are the feeders completely enclosed and are adequate means of dust control provided?	❒	❒	❒
3. Does the solution pot provide effective solution or suspension of the chemical?	❒	❒	❒
4. Is water which is used for make-up introduced through an air gap or other approved method to prevent back siphonage?	❒	❒	❒

Safety Provisions

1. Are rubber or neoprene gloves and hand washing facilities provided?	❒	❒	❒
2. Is a safety shower in close proximity to the chemical handling location provided?	❒	❒	❒
3. Where dry powdered chemicals are handled, are National Institute for Occupational Safety and Health (NIOSH) approved dust respirators provided?	❒	❒	❒
4. Is a copy of the manufacturer's material safety data sheet for each chemical conspicuously posted at each location where chemicals are handled?	❒	❒	❒

***Submit appropriate engineering plans, specifications, reports, etc. to substantiate your answers. ***

I hereby certify that answers provided herein are accurate and reflective of the project being considered for approval.

_____

Signature of Engineer Date N.J.P.E. #
Professional Engineer's Embossed Seal

Type or Print Name of Engineering Firm